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UNITED STATES DISTRICT COURT  
NORTHERN DISTRICT OF CALIFORNIA

RIDEAPP, INC.,

**Plaintiff,**

V.

LYFT, INC.

Defendant.

Case No. 4:18-CV-07152-JST

**PLAINTIFF RIDEAPP, INC.'S OPENING  
CLAIM CONSTRUCTION BRIEF**

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1       **I. INTRODUCTION**

2                  The patent in suit, U.S. Patent No. 6,697,730 (Dkt. 88-1; referred to herein as the “‘730  
3                  Patent”), claims a system that integrated then-nascent technologies into a better, more efficient  
4                  and useful transit system. The system included GPS technology, wireless data service used by  
5                  passengers and drivers, a central<sup>1</sup> assigning system, and secure payment technology.

6                  Lyft offers unduly narrow constructions or none at all, offering constructions that  
7                  improperly import limitations from some embodiments and exclude other embodiments.

8                  Lyft claims that the patent claims are hopelessly indefinite. RideApp's Expert, David Yen,  
9                  disagrees.

10       **II. BACKGROUND**

11       **A. The Inventions of the ‘730 Patent**

12                  The ‘730 Patent discloses a communications and computing based transit system that  
13                  employs wireless communications, GPS or similar location technology, and digital computers  
14                  programmed to perform the specific algorithms that are disclosed in the specification. The  
15                  specification discloses in detail the many advantages that Prof. Dickerson perceived would be  
16                  realized by implementing such a system, including (1) reduced wait times, (2) reduced transit  
17                  time uncertainty, (3) minimized vehicle backtracking, (4) communication among the passenger,  
18                  driver, and system, (5) a convenient payment system for passenger transportation vehicle usage,  
19                  and (6) enhanced passenger and driver security.

20       **B. The Petitions for IPR and PTAB’s Decisions**

21                  Lyft filed its IPR arguing invalidity over specified prior art.

22                  Lyft was obliged to articulate proper claim constructions for the asserted claims. Lyft  
23                  suggested the claims are indefinite and, in the alternative, offered several constructions that failed  
24                  to point to the essential structure set forth in the patent.

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28                  <sup>1</sup> The patent uses the term “central data system” when the “central assigning system” is interfaced  
                with one or more databases. *See* ‘730 Patent, FIGS. 2, 3, 9.

1        Although RideApp, as patent owner, was not required even to respond, RideApp  
 2 submitted a Preliminary Response. RideApp pointed to numerous aspects of its disclosure,  
 3 including algorithms, that Lyft ignored that were essential to the invention of the '730 Patent.

4        The PTAB concluded that Lyft failed to articulate sufficient structure such that the PTAB  
 5 was not able to compare the '730 Patent to the prior art. The PTAB attempted its own construction  
 6 without the benefit of a non-preliminary response from RideApp or its expert.<sup>2</sup> The PTAB  
 7 concluded that it could not, by itself, find sufficient structure to support the claims and that  
 8 "Petitioner has not shown a reasonable likelihood that it will prevail with respect to  
 9 unpatentability." *Lyft Inc. v. RideApp, Inc.*, Case IPR2019-00671, Paper No. 12 at 15 (P.T.A.B.  
 10 Aug. 12, 2019) ("PTAB Decision"), attached as Ex. 1.

### 11        **III.     LEGAL PRINCIPLES**

#### 12        **A.     Claim Construction**

13        Claim construction is a question of law. *Markman v. Westview Instruments, Inc.*, 517 U.S.  
 14 370, 384-85 (1996). A court must construe a patent's claims in order to resolve the factual  
 15 question of infringement. *Id.*

##### 16        **1.     Intrinsic Evidence is the Best Guide to the Claims' Meaning**

17        It is axiomatic that the patent claims define the invention. *Phillips v. AWH Corp.*, 415  
 18 F.3d 1303, 1312 (Fed. Cir. 2005). Claim construction begins with the words of the claims. *MSM*  
 19 *Investments Co. v. Carolwood Corp.*, 259 F.3d 1335, 1338-39 (Fed. Cir. 2001).

20        The patent specification and prosecution history are "intrinsic" evidence of the meaning  
 21 of the claim terms. The specification is "the single best guide to the meaning of a disputed term."  
 22 *Phillips v. AWH Corp.*, 415 F.3d 1303, 1321 (Fed. Cir. 2005). Understanding the problems that  
 23 inventors were seeking to solve is often useful. *Bates v. Coe*, 98 U.S. 31, 38 (1878) ("[I]n case  
 24 of doubt or ambiguity it is proper in all cases to refer back to the descriptive portions of the  
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 26

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27        <sup>2</sup> The PTAB is criticized for this practice. See, e.g., "Are PTAB Non-Institution Decisions  
 28 Based on Indefiniteness Defensible post-SAS?"  
<https://www.lexology.com/library/detail.aspx?g=ce1855c8-9a9a-4a78-a5b4-425cc0f0331d>.

specification to aid in solving the doubt or in ascertaining the true intent and meaning of the language employed in the claims.”).

Extrinsic evidence may also guide claim construction, but it may not be relied upon to vary the clear meaning of claim terms. *Finisar Corp. v. DirecTV Grp., Inc.*, 523 F.3d 1323, 1328 (Fed. Cir. 2008). Because courts evaluate definiteness from the perspective of someone skilled in the relevant art at the time the patent was filed, expert testimony may be helpful in evaluating definiteness. *See, e.g., Dow Chemical Co. v. Nova Chemicals Corp.*, 809 F.3d 1223, 1225 (Fed. Cir. 2015).

## 2. Means-Plus-Function Claims.

Means-plus-function claiming occurs when a claim is drafted in a manner that invokes 35 U.S.C. § 112, ¶ 6 (“Section 112”). Section 112 provides:

An element in a claim for a combination may be expressed as a means or step for performing a specified function without the recital of structure, material, or acts in support thereof, and such claim shall be construed to cover the corresponding structure, material, or acts described in the specification and equivalents thereof.

35 U.S.C. § 112, ¶ 6 (2006). In construing functional claims, a court must first determine the claimed function and then identify the corresponding structure from the specification that performs that function. *Baran v. Medical Device Tech., Inc.*, 616 F.3d 1309, 1316 (Fed. Cir. 2010). The functions should be expressly set forth in the claims. *JVW Enters., Inc. v. Interact Accessories, Inc.*, 424 F.3d 1324, 1331 (Fed. Cir. 2005).

For means-plus-function limitations where the disclosed structure is a computer programmed to implement an algorithm, the patent must disclose enough of an algorithm to provide the necessary structure under 35 U.S.C. § 112 ¶ 6. *See Finisar Corp. v. DirecTV Grp., Inc.*, 523 F.3d 1323, 1340 (Fed. Cir. 2008). The patentee may express this algorithm in any understandable manner, including as a flowchart, so long as sufficient structure is disclosed. *Id.* The Federal Circuit “does not impose a lofty standard in its indefiniteness cases.” *Id.* at 1341. Sufficient structure must simply “permit one of ordinary skill in the art to ‘know and understand what structure corresponds to the means limitation’” so that he may “perceive the bounds of the invention.” *Id.* at 1340-41.

1        “A challenge to a claim containing a means-plus-function limitation as lacking structural  
 2 support requires a finding, by clear and convincing evidence, that the specification lacks  
 3 disclosure of structure sufficient to be understood by one skilled in the art as being adequate to  
 4 perform the recited function.” *Eon Corp. IP Holdings, LLC v. Aruba Networks, Inc.*, 62 F. Supp.  
 5 3d 942, 948 (N.D. Cal. 2014) (citing *Intellectual Prop. Dev., Inc. v. UA-Columbia Cablevision of*  
 6 *Westchester, Inc.*, 336 F.3d 1308, 1319 (Fed. Cir. 2003)). When construing a means-plus-  
 7 function claim, “a court may not import into the claim structural limitations from the written  
 8 description that are unnecessary to perform the claimed function.” *Acromed Corp. v. Sofamor*  
 9 *Danek Group, Inc.*, 253 F.3d 1371, 1382 (Fed. Cir. 2001). When multiple embodiments in the  
 10 specification correspond to the claimed structure, proper application of Section 112 generally  
 11 reads the claim element to embrace each of those embodiments. *Versa Corp. v. Ag-Bag Intern.*  
 12 *Ltd.*, 392 F.3d 1325, 1329 (Fed. Cir. 2004).

13        **B. A Person of Ordinary Skill in the Art**

14        The skilled artisan to whom the ’730 Patent disclosure is directed would be familiar with  
 15 digital cell phone design and technology, mobile software platforms, and software development  
 16 methodologies, and preferably would have experience in innovation processes and consumer  
 17 technology development. The artisan would have education and familiarity with electrical,  
 18 industrial, mechanical, or computer sciences, including at least (a) a bachelor’s degree with at  
 19 least three years of experience working in one of those fields, or (b) a master’s degree or higher  
 20 in such a field with at least one year of experience in that field. A person with less education and  
 21 more relevant practical experience, or more relevant education and less practical experience, may  
 22 also meet this standard. Mr. Yen is at least a skilled artisan. (Declaration of David Yen, dated  
 23 Sept. 6, 2019 and filed concurrently herewith (“Yen Decl.”) ¶¶ 24-27.)

24        **IV. THE DISPUTED CLAIM TERMS**

25        **A. “a central data system for tracking passenger transportation vehicle usage**  
           **and distributing periodic invoices for that usage”**

26

RideApp’s Construction	Lyft’s Construction
means-plus-function term	means-plus-function term

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<p>1 “central data system” means “central 2 assignment system combined with one 3 or more databases”</p> <p>4</p> <p>5</p> <p>6</p> <p>7</p> <p>8</p> <p>9</p> <p>10</p> <p>11</p> <p>12</p> <p>13</p> <p>14</p> <p>15</p> <p>16</p> <p>17</p> <p>18</p> <p>19</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p> <p>26</p> <p>27</p>	<p><b>Function:</b></p> <p>(1) “tracking of passenger and vehicle for the passenger transportation vehicle usage,” and</p> <p>(2) “distributing periodic invoices for the usage.”</p> <p><b>Essential Structure<sup>3</sup>:</b></p> <p>(1) A central data system is a central assigning system plus one or more databases. The system includes specific software to support the transit system. The central data system may have distributed architecture. <i>See FIGS. 2 &amp; 3, '730 Patent 5:54-6:5.</i></p> <p>(2) The central data system further includes communication devices, including modems, cellular, and low-power, providing links between the discrete computer(s) of the central system and the passengers and vehicles. '730 Patent 5:54-6:5.</p> <p><b>Specially programmed to perform the following:</b></p> <p>(3) central data system receives notification message that a user is onboard a vehicle;</p> <p>(4) central data system periodically receives notification message of status information, including the vehicle’s position;</p> <p>(5) central data system receives notification message that passengers have left the vehicle;</p> <p>(6) After the passenger is delivered to the passengers destination, the central system bills the passenger for the trip (optionally “as the event occurs,” monthly, or with utility bill).</p>	<p><b>Function:</b></p> <p>(1) “tracking passenger transportation usage,” and</p> <p>(2) “distributing period invoices for the usage,” subject to the constructions of “tracking passenger transportation usage” and “periodic”</p> <p><b>Structure:</b></p> <p>Indefinite, but if not indefinite, the following structure:</p> <p>Function (1): the structure recited in the specification at 5:54-64; 9:3-26; 14:14-19; 16:17-22; Table 1 under “Monitor Status for Vehicle Assignments (Cols. 21-22) Software Element; FIG. 6 (item 504.1); FIG. 8 (items 802, 804, 806, 808, and 810); and</p> <p>Function (2): 5:54-65; 18:4-10; 18:34-39; Table 1 under “Billing and Payment” (Cols. 23-24) Software Element (“Using stored data, the system would periodically, e.g., monthly bill all passengers and pay all drivers. The preferred mode would be billing to utility bill, e.g., the cell phone or pager bill...All of this is done without manual intervention.”); FIG. 8 (item 814).</p>
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28 <sup>3</sup> See Ex. 2 for a depiction of the algorithm for this claim.

1       The essential structure for this claim element must include at least a central data system  
 2 that tracks the passenger transportation vehicle usage and maintains the tracked information for  
 3 billing. Yen Decl. ¶ 59. The central data system includes one or more networked computers with  
 4 specific software to support the entire transit system. Yen Decl. ¶ 59. '730 Patent, 10:23-26;  
 5 11:6-8. The system may have distributed architecture. Yen Decl. ¶ 59. *See* '730 Patent, 5:54-  
 6 6:5 (“portions of the assigning system are distributed among several locations”). Those  
 7 computers further include communication devices providing links between the discrete  
 8 computer(s) of the central system and the passengers and vehicles. Yen Decl. ¶ 59. *See* '730  
 9 Patent, FIGS. 2 & 4. The central data system is programmed with specific software that performs  
 10 the described functions. Yen Decl. ¶ 59. '730 Patent, 10:23-26; 11:6-8; FIG. 9 & Table 1.

11       The central assigning system and database are shown in FIG. 2 (items **205** & **240**) and  
 12 FIG. 3 (item **340**); *see* '730 Patent, 7:27-30, 9:26-35, 10:22-49, 14:33-37, 15:24-26.

13       The system further includes communication devices, including modems, providing links  
 14 between the discrete computer(s) of the system and the passengers and vehicles that are capable  
 15 of sending and receiving messages. Yen Decl. ¶ 60. *See* '730 Patent, 5:54-64. The system is  
 16 programmed to track passenger transportation vehicle usage. Yen Decl. ¶ 61. *See* '730 Patent,  
 17 7:65-8:10 (system tracks all aspects of usage); 15:54-60 (the central data system monitors all  
 18 passenger information), 7:47-58 (the system monitors passenger and vehicle). The system is  
 19 programmed to receive notification messages of status information, including the vehicle’s  
 20 position and notification messages that passengers have left the vehicle. Yen Decl. ¶ 61. *See*  
 21 '730 Patent, 16:34-38.

22       The system tracks “communications between passengers and vehicles to monitor system  
 23 usage.” Yen Decl. ¶ 62. '730 Patent, 8:4-5. The system is further programmed to distribute  
 24 periodic invoices for the usage. Yen Decl. ¶ 62. *See* '730 Patent, 5:39-53 (tracking for purposes  
 25 of billing); 16:17-38 (same).

26       The written description includes an algorithm for the tracking function that provides  
 27 corresponding structure for the central data system. Yen Decl. ¶ 63. *See* '730 Patent, FIG. 9 &  
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Table 1.<sup>4</sup> The central data system is programmed to receive a communication when a passenger boards a vehicle. Yen Decl. ¶ 63. *See '730 Patent, FIG. 9 & Table 1 (Monitor Status for Vehicle Assignment & Transit Loading and Configuration).* This central data system then writes this information to Update Billing Files, which ultimately is used in the system's Billing and Payment. *See '730 Patent, FIG. 9 & Table 1.* Yen Decl. ¶ 63.

After the previous steps have taken place, the central data system is further programmed to distribute periodic invoices based on usage. Yen Decl. ¶ 64. *See '730 Patent, FIG. 9 & Table 1 (Update Billing Files & Billing and Payment).* Yen Decl. ¶ 64. The written description sets forth numerous methods by which the actual billing can occur. *See '730 Patent, 5:45 (usage charged through cellular phone bill), 8:32-37 (same) 23:23-34; (automatic billing "like a utility"); 16:30-33 (billing "[o]nce the passenger is delivered to the passenger's destination" with "bill being presented at a designated date"); 18:7 ("utility style billing"); 18:10-12 ("paid automatically by credit card or bank debit"); 18:12-13 ("payment handled through the World Wide Web"); 18:34-36 ("aggregated" billing being sent to user's cell phone); 18:44 ("as the event occurs"); 18:13 ("paid by check in the mail"); FIG. 8 (illustrative billing element).*

Mr. Yen considers this to be the corresponding structures for this claims, and trust this term is definite.

**B. "a wireless means of on-demand allocation of a passenger to a specific vehicle through the central data system"**

RideApp's Construction	Lyft's Construction
means-plus-function term	means-plus-function term
<b>Function:</b> "on-demand allocation of a passenger to a specific vehicle through the central data system"	<b>Function:</b> "on-demand allocation of a passenger to a specific vehicle through the central data system"
<b>Essential Structure<sup>5</sup>:</b>	<b>Structure:</b>

<sup>4</sup> Figure 9 and Table 1 must be read together. Table 1 describes the algorithms within each module on Figure 9.

<sup>5</sup> See Ex. 3 for a depiction of the algorithm for "on-demand allocation."

<p>(1) Central data system with wireless, connectivity.</p>	<p>Indefinite, but if not indefinite, the following structure:</p>
<p>(2) A scheduling processor at the central data system. FIG. 9 &amp; Table 1 (Transit Loading and Configuration &amp; Monitor Status for Vehicle Assignments).</p>	<p>FIG. 6 at items 504.5 and 504.6; 6:55-62; 7:1-7; 7:35-44; 14:47-15:30; 15:35-41; Table 1 under “Find Best Trip” Software Element (“Solves the trip assignment task based on available vehicles, their schedules, and their passenger loadings. Also updates passengers as the trip origination time becomes imminent.” (Cols. 21-22)</p>
<p>(3) A message from a passenger to the central data system to request a trip; Table 1 (Request Shared Trip)</p>	
<p>(4) A message from central data system to a specific vehicle that identifies the passenger and pick-up location. <i>See FIG. 9 &amp; Table 1 (Notify Driver).</i></p>	

Essential Structure: The Patent describes “allocation” as the process of **communicating** to vehicles/drivers the passengers, routes, and schedules. Yen Decl. ¶ 67. ’730 Patent, 8:3-4 (“**communications to vehicles** to allocate routes, schedules and passengers”) 15:24-27 (“Once the routes and methods are determined, the central processing system **allocates** them based on a passenger’s parameters.”)<sup>6</sup> Here, the claim term is limited to “**allocation** of a passenger to a specific vehicle.” Yen Decl. ¶ 67. ’730 Patent Claims 2(c) & 3(c); *see also*, id., 7:27-30; 14:25-28 (“The information can be audio, visual, or text data....”); 16:6-8 (“In step **516**, the central assigning system then notifies vehicles and/or drivers of passenger assignments.”)

The essential structure for this claim element includes a central assigning system that monitors all vehicles for location, projected future location, in-service status, assigned passengers, driver information, and actual loading by pick-up location. Yen Decl. ¶ 68. '730 Patent, 7:46-52, 9:5-26, 11:62-64, 14:14-16; Table 1 (Request Shared Trip, Transit Loading and Configuration & Monitor Status for Vehicle Assignment); FIG. 9. The central assigning system processes the passenger's trip request to make an assignment. See '730 Patent, FIGS. 5 & 6; Table 1. After the trip is assigned, the scheduling processor at the central data system allocates the assignment

<sup>6</sup> In response to Lyft’s Petition for Inter Partes Review, RideApp offered a preliminary construction of “allocation” that included “assignment.” PTAB found that Patent Owner sought to add aspects that appear in the embodiments in its preliminary construction of “allocation.” (Ex. 1, at 6.) In light of PTAB’s Decision, Patent Owner proposes to limit “allocation” solely to its description in the specification.

1 to a specific vehicle. *See id.; see also* '730 Patent, 15:24-26 (“Once the routes and methods are  
 2 determined, the central processing system allocates them....”); 16:6-8. The central data system  
 3 sends a message to allocate the passenger to the specific vehicle. Yen Decl. ¶ 68. *See* '730 Patent,  
 4 7:65-8:6; Table 1 (Notify Driver); 14:33-37 (“The central assigning system can communicate  
 5 updated passenger and vehicle information directly to vehicles and drivers.”); *see also* 9:15-17  
 6 (“[t]he data includes...current passenger assignments....”).

7 Mr. Yen considers this to be the corresponding structures for this claims, and trust this  
 8 term is definite.

9 Embodiments related to allocation include FIG. 4, a diagram of an embodiment of the  
 10 transit system. Yen Decl. ¶ 69. Further, FIG. 5 illustrates one embodiment of the operation of a  
 11 preferred scheduling processor; it includes the step Notify Vehicle of Trip Selection, which is an  
 12 analogue of the Notify Driver element of the algorithm. *Id.*

13 **C. “a wireless means of informing the passenger of the assignment and updated  
 14 expected arrival time”**

RideApp's Construction	Lyft's Construction
means-plus-function term	means-plus-function term
<b>Function:</b> <ul style="list-style-type: none"> <li>(1) “informing the passenger of the assignment and</li> <li>(2) “informing the passenger of the expected time at which the vehicle and passenger will meet, including updates to the arrival time”</li> </ul>	<b>Function:</b> <ul style="list-style-type: none"> <li>Indefinite, alternatively:           <ul style="list-style-type: none"> <li>(1) “informing the passenger of the assignment,” and</li> <li>(2) “informing the passenger of the expected time at which the vehicle and passenger will meet, including updates to the arrival time”</li> </ul> </li> </ul>
<b>Essential Structure<sup>7</sup>:</b> <ul style="list-style-type: none"> <li>(1) The central data system, wireless communication devices for sending and receiving messages, and scheduling processor described above. <i>See</i> Table 1 (Monitor Status for Vehicle Assignments &amp; Find Best Trip)</li> </ul>	<b>Structure:</b> <ul style="list-style-type: none"> <li>Indefinite, but if not indefinite, the following structure:           <ul style="list-style-type: none"> <li>Function (1): FIG. 6 (item 504.7); 7:48-59; 16:6-8; Table 1 under “Notify Passenger, Updates” (“The hand held terminal would display</li> </ul> </li> </ul>

28 <sup>7</sup> See Ex. 4 for a depiction of the algorithm for this claim.

<p>1 (2) Notify Passenger message from 2 central data system to passenger 3 informing of assignment and time of 4 pick-up. <i>See FIG 9 &amp; Table 1 (Notify</i> <i>Passenger, Updates).</i></p> <p>5 (3) One or more Notify Passenger, 6 Update messages from central data 7 system informing passenger of expected 8 time at which vehicle and passenger 9 will meet, including updates. <i>See id.</i></p>	<p>10 trip options in order of likely 11 preference. This often would be the 12 only one as there is an obvious best 13 transit option.”) (Cols. 21-22); and</p> <p>14 Function (2): FIG. 5 (item 514); 15 7:48-59; 11:63-12:3; 15:43-51; 17:6- 16 11; Table 1 under “Notify Passenger, 17 Updates” (It would also display the 18 time of pick-up. If this time of pick- 19 up had uncertainty of greater than 20 some limit, e.g., 60 seconds, then 21 repeated messages, updates, would 22 be sent concerning the chosen trip so 23 that waiting could be minimized.”) 24 (Cols. 21-22) and “Report Position” 25 (All vehicles are equipped with 26 locating means, e.g, GPS and 27 periodically report position. During 28 passenger pick-up periods this reporting is frequent so that passengers can be notified of pick-up times with precision, e.g., 60 seconds”) (Cols. 21-22) Software Elements.</p>
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14        Essential Structure: Embodiments of the system are illustrated throughout the written  
15 description. Yen Decl. ¶ 74. *See '730 Patent, FIGS. 3, 4, 9 & Table 1 (Notify Passenger).* The  
16 central data system interfaces wirelessly with the passenger. Yen Decl. ¶ 74. Upon a passenger's  
17 request for a trip, the scheduling processor of the system determines the best trip, or a number of  
18 options. This process is illustrated in the written description. Yen Decl. ¶ 74. *See '730 Patent,*  
19 **FIG. 5 (504, 506, 510, 512, 514) & FIG. 6 (504.7).**

20        The central data system receives a trip request and the scheduling processor assigns that  
21 passenger to a vehicle. Yen Decl. ¶ 75. *See '730 Patent, 3:56-62 (system matches “a passenger's*  
22 *trip request with current transit parameters to determine vehicle assignment and routes that reduce*  
23 *passenger trip and wait times, wherein the current transit parameters and passenger location are*  
24 *obtained via wireless communication devices optionally capable of transmitting location data”);*  
25 *7:1-4; 7:28-30.* The scheduling processor can conduct the assignment process in any number of  
26 exemplified ways. *See, e.g., '730 Patent, FIG. 9 & Table 1 (Monitor Status for Vehicle*  
27 *Assignments, Find Best Trips).* Once the assignment occurs, the central data system sends a  
28 message to the passenger that includes notice of the assignment and the expected arrival time.

1     See '730 Patent, FIG. 9 & Table 1 (Notify Passenger, Updates). The system monitors locations  
 2     of vehicles in order to provide accurate, real-time information on when a passenger will be picked  
 3     up. Yen Decl. ¶ 75. '730 Patent, 11:63-64; *see also* Table 1 (Report Position). As the system  
 4     dynamically updates with new passenger and vehicle information, it will update the passenger  
 5     with revised pickup times if previous pickup times have been modified based on new data. Yen  
 6     Decl. ¶ 75. '730 Patent, 15:41-46; *see also* FIG. 5 (**510, 512, 514**). The central data system is  
 7     programmed to provide additional messages that update the expected arrival time, with more  
 8     frequent messages if the arrival is imminent or has been delayed. Yen Decl. ¶ 75. *See id.*; *see*  
 9     *also* 7:47-64 (“The scheduling processor of the central assigning system. . . .communicates to the  
 10    passenger a pickup point (origination site) and estimated or exact time of pick up. . . . More than  
 11    one communication may be required to update information, particularly the exact time of trip  
 12    origination.”); 14:23-25 (“During passenger pick-up periods this reporting is frequent so that  
 13    passengers can be notified of pick-up times.”). If the time of pickup has an uncertainty of greater  
 14    than some limit, then repeated update messages would be sent. Yen Decl. ¶ 75. '730 Patent,  
 15    Table 1 (Notify Passenger, Updates); 11:65-12:3.

16                  D.        “a wireless means of detecting the proximity of the passenger and alerting  
 17        the passenger of the proximity of the vehicle”

RideApp's Construction	Lyft's Construction
means-plus-function term	means-plus-function term
<b>Function:</b>  A wireless means of:  (1) “detecting when the passenger is within a certain proximity of the vehicle,” and  (2) “alerting the passenger of the proximity of the vehicle”	<b>Function:</b>  Indefinite, alternatively:  (1) “detecting when the passenger is within a certain proximity to the vehicle,” and  (2) “alerting the passenger of the proximity”
<b>Essential Structure<sup>8</sup>:</b>	<b>Structure:</b>

27  
 28                  <sup>8</sup> See Ex. 5 for a depiction of the algorithm for this claim.

<p>(1) GPS and digital cellular communications located in passenger hand-held device. <i>See</i> 4:56-65; FIG. 9 &amp; Table 1 (Request Trip).</p> <p>(2) Central Assigning System and database. <i>See</i> FIG. 9 &amp; Table 1.</p> <p>(3) GPS-enabled device located on the vehicle that periodically detects and reports position.</p> <p>(4) Message notifying passenger of the proximity of vehicle. <i>See</i> FIG. 9 &amp; Table 1 (Report Position, Signal Vehicle of Presence).</p>	<p>Indefinite, but if not indefinite, the following structure:</p> <p>Function (1): 5:16-5:29; 11:63-12:3; 14:37-40; 20:30-39; Table 1 – “Signal Vehicle of Presence” Software Element (“When approaching the transit vehicle (or station in the case of rail) the hand held terminal would notify the vehicle that the particular passenger was present and intended to board. This (1) gives the driver assurance that a particular individual is to be on board, and (2) causes the trip to be logged for billing and vehicle loading purposes in the transit assignment system. Correspondingly, the passenger is automatically notified of proximity of vehicle.”) (Cols. 21-22); and</p>
	<p>Function (2): 17:6-11; Table 1 – “Signal Vehicle of Presence” Software Element (“When approaching the transit vehicle (or station in the case of rail) the hand held terminal would notify the vehicle that the particular passenger was present and intended to board. This (1) gives the driver assurance that a particular individual is to be on board, and (2) causes the trip to be logged for billing and vehicle loading purposes in the transit assignment system. Correspondingly, the passenger is automatically notified of proximity of vehicle.”) (Cols. 21-22).</p>

Essential Structure: The system employs location technology to detect the geographic position of the passenger and vehicle. Yen Decl. ¶ 78. '730 Patent, 8:1-2; 10:45-49; 11:42-45. This is specifically exemplified as GPS technology, although Prof. Dickerson was aware of other technologies that were emerging and could be integrated into his system. Yen Decl. ¶ 78. See '730 Patent, 7:65-8:9; *see also* 5:6-25 (“Similarly, the term GPS refers to wireless locating technology that may be based on cellular locating systems known to those skilled in the art.”); 5:13-15 (other wireless location technologies); 10:42-48 (same); 11:47-49 (same).

1 GPS technology is integral to the claimed system and to performing the claimed functions.  
 2 “Proximity” requires accurate and updated location information of both the vehicle and passenger.  
 3 Yen Decl. ¶ 79. The system uses GPS to track the vehicles. Yen Decl. ¶ 79. *See '730 Patent,*  
 4 Table 1 (Report Position) (“All vehicles are equipped with locating means, e.g., GPS and  
 5 periodically report position. During passenger pick-up periods this reporting is frequent so that  
 6 passengers can be notified of pick-up times with precision”).

7 The system dynamically detects and records location and uses location data in its  
 8 algorithms. Yen Decl. ¶ 80. *See '730 Patent, Table 1 (Transit Loading and Configuration &*  
 9 *Monitor Status for Vehicle Assignments).* The algorithms that process trip requests, determine  
 10 best trips, and perform assignment functions rely on the location data for passenger and vehicle.  
 11 Yen Decl. ¶ 80. *See '730 Patent, Table 1 (Transit Loading and Configuration, Monitor Status for*  
 12 *Vehicle Assignments, Find Best Trip).* The specification teaches that the system monitors  
 13 location data. Yen Decl. ¶ 80. 16:35-36 (“the central assigning system is periodically notified of  
 14 status information, including the vehicle’s position”). The system relies on location data to  
 15 determine scheduling, such as time of arrival. Yen Decl. ¶ 80. 7:8-11. (“The central assigning  
 16 system can dynamically update the schedule of vehicles based both on demand trends and on  
 17 actual vehicle progress in meeting schedules. Vehicle progress data can be provided by GPS.”).  
 18 The written description provides that the passenger reports information to the system including  
 19 location information. Yen Decl. ¶ 80. *See '730 Patent, 7:65-8:10, FIG. 9 & Table 1 (Request*  
 20 *Trip).* The vehicle’s position is tracked. Yen Decl. ¶ 80. *See '730 Patent, FIG. 9 & Table 1*  
 21 *(Report Position).* The central data system will send messages alerting the passenger regarding  
 22 the proximity of the vehicle. Yen Decl. ¶ 80. *See '730 Patent, FIG. 9 & Table 1 (Signal Vehicle*  
 23 *of Presence)* (“Correspondingly the passenger is automatically notified of proximity of vehicle.”).

24       E.       **“periodic”**

RideApp’s Construction	Lyft’s Construction
Plain and ordinary meaning.	“occurring at regular intervals of time (e.g., monthly), independent of when a trip or segment of a trip is made”

1 Consistent with the plain meaning of the word, the patent uses the term “periodic” to mean  
 2 occurring at regular **or** irregular intervals. Yen Decl. ¶ 83. For example, the patent refers to  
 3 pollutants “periodically” washed away—not at regular intervals but from time to time upon  
 4 occurrence of an event. Yen Decl. ¶ 83. *See, e.g.*, ’730 Patent, 1:39-40 (“Such pollutants  
 5 periodically are washed away by rain water...”); *see also* 16:35-36 (“the central assigning system  
 6 is periodically notified of... passengers who have boarded or left the vehicle”). The patent  
 7 contrasts “periodic” from “continuous.” 9:5-6 (“The evaluation of the data can be periodic or  
 8 continuous.”). The patent also explains that periodic reports may change in frequency. *See* ’730  
 9 Patent, Table 1 (Report Position) (“periodically report position”). The specification’s use of  
 10 “monthly (or periodic)” shows that periodic is not the same as monthly, though it may include  
 11 monthly. *See* ’730 Patent, 18:55-57 (“Clearly private owners of ride-sharing vehicles and rental  
 12 cars would receive monthly (or periodic) compensation...”). Even in reference to “periodic  
 13 billing,” the specification states “**perhaps** monthly,” but does not limit the claim to monthly or  
 14 any regular interval. Yen Decl. ¶ 83. *See* ’730 Patent, 5:44-45. Rather, the Patent explains that  
 15 the system can “the system can credit payments received and charge trips taken as the event  
 16 occurs.” Yen Decl. ¶ 84. *See* ’730 Patent, 18:42-44. “[P]articular embodiments appearing in a  
 17 specification will not be read into the claims when the claim language is broader than such  
 18 embodiments.” *Electro Med. Sys. S.A. v. Cooper Life Sci.*, 34 F.3d 1048, 1054 (Fed. Cir. 1994).

19           F.        “unified billing”

RideApp’s Construction	Lyft’s Construction
The preamble is not limiting.  Plain and ordinary meaning.	The preamble is limiting.  “an aggregation of the trips of a user in one bill statement”

20           The preamble merely recites the stated objective of providing “a convenient access and  
 21 billing system for **all modes of travel, shared-ride, mass transit, or car rental** (including taxi)  
 22 such that the user need not be bothered with cash or tokens but rather receives a monthly billing  
 23 perhaps as part of the cellular communications bill.” Yen Decl. ¶ 88. ’730 Patent, 8:32-37. The  
 24 system “has electronic automatic billing and user ID like a utility for **both ride-shared and rental**

1 trips.” ’730 Patent, 23:23-27. “The same low power transmission capability of item 5 permits  
 2 automatic billing of passengers in **ride-shared vehicles including mass-transit, and in rental**  
 3 **cars.**” Yen Decl. ¶ 88. ’730 Patent, 5:36-39. The invention is about incorporating billing into  
 4 the system to avoid the need for cash payments. *See, e.g.*, ’730 Patent, 5:39-44. It seems that  
 5 “unified” refers to incorporating billing into the central system to enable billing to “be handled in  
 6 a fully automatic manner.” Yen Decl. ¶ 88. ’730 Patent, 5:53.

7 The Federal Circuit has “routinely held that a preamble does not limit claim scope if it  
 8 ‘merely states the purpose or intended use of an invention.’” *Digitech Image Techs., LLC for*  
 9 *Elecs. for Imaging, Inc.*, 758 F.3d 1344, 1351 (Fed. Cir. 2014) (finding that preamble “A method  
 10 of generating a device profile that describes properties of a device in a digital image reproduction  
 11 system for capturing, transforming or rendering an image, said method comprising” was not  
 12 limiting).

13 Moreover, courts normally do not interpret claims in a way that excludes disclosed  
 14 examples in the specification. *Verizon Services Corp. v. Vonage Holdings Corp.*, 503 F.3d 1295,  
 15 1305 (Fed. Cir. 2007). Here, the ’730 Patent specifically states that billing can occur in a number  
 16 of ways: as part of a cellular communications bill (5:45), billing “once the passenger is dropped  
 17 off” with “bill being presented at a designated date” (16:30-33), “utility style billing” (18:7), “as  
 18 the event occurs” (18:44), or “aggregated” billing being sent to user’s cell phone (18:34-36).  
 19 Payment also can be made in a number of ways: “paid automatically by credit card or bank debit”  
 20 (18:10-12), “payment handled through the World Wide Web” (18:12-13), “as the event occurs”  
 21 (18:44), or “paid by check in the mail” (18:13). Yen Decl. ¶ 89. If the preamble were found to  
 22 be limited, and if “unified” were construed in the manner suggested by Lyft, then a number of  
 23 examples would be excluded from the claims, including each of the foregoing. Yen Decl. ¶ 89.

24 Further, claim 1 identically recites an “automated system for providing unified billing for  
 25 passenger transport” in the preamble, but then recites in the claim an “automatic means of billing  
 26 for the use of the vehicle” in the claim—not assembling all charges into a monthly bill. “Unified  
 27 billing” cannot mean aggregation into one bill statement. Yen Decl. ¶ 90.

28

Moreover, nothing in the claim requires more than one trip. Yen Decl. ¶ 91. Thus, the claim cannot require “aggregation” of multiple trips into one bill statement. *Id.* As the specification explains, automatic billing in the invention can be “as the event occurs.” Yen Decl. ¶ 91. ’730 Patent, 18:23-44. The plain meaning of “unified” is “brought together as one.” Yen Decl. ¶ 91. Thus, the preamble recites that the billing for passenger transport is brought together as one in the automated system—not that the billing itself necessarily brings together multiple charges as one. Yen Decl. ¶ 91.

#### G. **“tracking passenger transportation vehicle usage”**

RideApp’s Construction	Lyft’s Construction
“tracking of passenger and vehicle for the passenger transportation vehicle usage from the initial request until arrival at the final destination”	“continuously tracking both the passenger and vehicle from the initial request until arrival at the final destination to monitor vehicle usage”

The patent describes “real-time” command and control. Tracking of the passenger transportation vehicle usage would begin when the usage begins. Yen Decl. ¶ 93. “The passenger can select the trip of an alternative by using a single key on a cellular phone, which may be one of several alternatives presented and may include a request for additional alternatives or data, **wherein at this point, the central assigning system is monitoring all key presses and information transmitted from the passenger’s communication device.**” Yen Decl. ¶ 93. ’730 Patent, 15:54-60.

The ’730 Patent amply discloses that the central data system engages in “tracking” passenger transportation vehicle usage. That feature provides many of the benefits sought by the invention. The system “provides real-time command and control of passengers and vehicles....” Yen Decl. ¶ 94. ’730 Patent, 6:6-10. The system “monitors each passenger’s and vehicle’s information, and then communicates to the passenger a pickup point (origination site) and estimated or exact time of pick up.” Yen Decl. ¶ 94. ’730 Patent, 7:47-53. The tracking occurs through the central data system, which monitors and records the passenger transportation vehicle usage. Yen Decl. ¶ 94. ’730 Patent, FIG. 9 & Table 1 (Monitor Status for Vehicle Assignments).

1       For this purpose, the Monitor Status feature interfaces with all of the essential elements  
 2 of the invention, thereby accessing vehicle data, position, loading; receiving passenger trip  
 3 request, interfacing with the assignment system, and sending notifications to the passenger; and  
 4 with the billing function to transmit the usage data on which billing is based. Yen Decl. ¶ 95. *Id.*

5       Lyft asks the Court to import the limitation that tracking occur “continuously” but fails to  
 6 explain why importing this new limitation is proper. Prior art “taxi dispatch” systems such as  
 7 those cited by Lyft in the IPR receive a request, make an assignment, communicate the  
 8 assignment, then disengage from the transportation usage. In contrast, the ’730 Patent continues  
 9 to perform command and control over the passenger transportation vehicle usage until the trip is  
 10 over, then bills for that usage. But the disclosed system is digital, and nothing digital performs  
 11 “continuously” in the sense that Lyft seems to intend. Yen Decl. ¶¶ 96-97.

12       Lyft’s construction reads in a requirement for “continuous” tracking. The claim contains  
 13 no such requirement. Yen Decl. ¶ 96. Moreover, “continuous” is unclear in this context. A  
 14 person of skill in the art would understand that reports of position would necessarily include  
 15 reports of position would necessarily include discrete reports in view of the nature of digital  
 16 communications. Yen Decl. ¶ 97.

17       H.      **“wireless communication between passengers, vehicles, and the central data**  
 18           **system”**

RideApp’s Construction	Lyft’s Construction
Plain and ordinary meaning means “communication transmitted/received using wireless communication devices between each of passengers and vehicles/drivers, passengers and the central system, and vehicles/drivers and the central data system”	“(1) wireless communication directly to and from the central data system and passengers, (2) wireless communication directly to and from the central data system and vehicles, and (3) wireless communication directly to and from vehicles and passengers”

25       The central data system includes wireless communications between the passenger,  
 26 vehicle, and the central data system. Yen Decl. ¶ 100. ’730 Patent, 3:17-20 (“hand-held devices”  
 27 means “cell phone”). The Patent is rife with disclosures about the importance of this feature in  
 28

1 the operation of the system. Yen Decl. ¶ 100. '730 Patent, 11:20-33; 14:33-35; 16:17-33; 20:25-  
 2 39. A principal aspect of the invention is the wireless “integration” of these system with passenger  
 3 and vehicle “provides real-time command and control of passengers and vehicles....” Yen Decl.  
 4 ¶ 100. '730 Patent, 6:6-10. As discussed above, many of the other features of the invention arise  
 5 from this wireless communication architecture, including “tracking,” “allocation,” messaging,  
 6 and “billing.” *Id.*

7 Lyft asserts that the Court should read in a limitation requiring that all communications  
 8 be “direct,” in particular that there be “wireless communication directly to and from vehicles and  
 9 passengers....” Yen Decl. ¶ 101. Requiring direct communication between passenger and vehicle  
 10 would undermine the “command and control” feature of the Patent. Yen Decl. ¶ 102. '730 Patent,  
 11 Abstract. Neither the Patent nor the specification includes such a requirement, and the  
 12 specification teaches none. Indeed, many of the “communications” disclosed in the Patent are  
 13 exchanges of data or messages to, from, or through the central data system. Yen Decl. ¶ 102.  
 14 '730 Patent, FIG. 9 & Table 1. Throughout the specification, Lyft's disclosures of “direct”  
 15 communication are communications with the central data system. Yen Decl. ¶ 102. '730 Patent,  
 16 9:31-35 (“direct” between system and database); 14:33-35 (system and vehicle); 16:41-44  
 17 (system and vehicle); 17:51-53 (system and passenger); Table 1 (Signal Vehicle of Presence).

18 As noted above, the Patent discloses a central data system that “provides real-time  
 19 command and control of passengers and vehicles....” Yen Decl. ¶ 103. '730 Patent, 6:6-10. The  
 20 system “monitors each passenger’s and vehicle’s information, and then communicates to the  
 21 passenger a pickup point (origination site) and estimated or exact time of pick up.” Yen Decl. ¶  
 22 103. '730 Patent, 7:47-53. The claimed system monitors and evaluates even communications  
 23 between passengers and vehicles as part of its tracking of passenger transportation vehicle usage.  
 24 Yen Decl. ¶ 103. *See* '730 Patent, 7:65-8:10 (“The data interpreted and evaluated by the central  
 25 assigning system can include: . . . . (4) communications between passengers and vehicles to  
 26 monitor system usage”).

27 Further, none of Lyft’s citations to the specification support such a construction or use the  
 28 word “direct.” Yen Decl. ¶ 104. *See* '730 Patent, 3:4-7 (“it is inexpensive to communicate to

1 and from people, vehicles, and traffic controls...."); 4:9-14 (communication "to and from  
 2 passengers, vehicles and the central assigning system"), 4:57-67 & 5:4-19 ("low power"  
 3 communication to unlock rental car); 7:65-8:10 (passengers and vehicles "to monitor system  
 4 usage"); 10:50-11:5 (low-power "short range" communication); 11:22-35 (not "direct"); 20:28-  
 5 36 (short-range). In any event, even if the Court were to adopt Lyft's construction reading in a  
 6 requirement of communications directly to and from vehicles and passengers, communications  
 7 from a passenger to a vehicle through the central data system could be considered direct  
 8 communication. Yen Decl. ¶ 105. All digital communications pass through intermediary  
 9 networks and can include signals that pass through intermediary servers or bouncing signals off  
 10 cell towers or satellites. Yen Decl. ¶ 105. See '730 Patent, FIG. 4; Thus, while it is unclear what  
 11 Lyft means by "direct," no conventional understanding of the term in the context of modern  
 12 communications excludes "direct" communications between passenger and vehicle occurring  
 13 through the system.

14 Lyft fails to explain why the claims should require "direct" communication, and the Court  
 15 should reject this construction.

16           **I.       "proximity"**  
 17

RideApp's Construction	Lyft's Construction
"distance; geographical closeness"	Plain and ordinary meaning or, alternatively, "nearness in space or time," subject to the construction of the means-plus-function term above

23 The '730 Patent explains at length that the central assigning system uses location data  
 24 reported by the vehicle and automatically transmitted by the passenger to determine transportation  
 25 assignments. Yen Decl. ¶ 108. See '730 Patent, 14:14-15:51; 16:34-38. Similarly, the central  
 26 data system will alert the passenger when the passenger and vehicle are a certain distance apart  
 27 (at a "range of about 1 mile to about 30 feet"). Yen Decl. ¶ 108. See '730 Patent, 17:4-11. The  
 28 system could also alert the passenger when the estimated time of arrival is imminent. Yen Decl.

¶ 108. *Id.* (noting that the “time” calculation would require the system to engage in “calculations”). In the context of car rental, the system alerts when the passenger “is in proximity to the vehicle [so] the doors can be unlocked....” Yen Decl. ¶ 108. ’730 Patent, 17:46-51; *see also* Table 1 (Signal Vehicle of Presence) (notifies vehicle and passenger as they approach the other).

Lyft seeks to construe the term “proximity” to relate to time. Yen Decl. ¶ 111. This does not comport with the written description, which clearly sets forth the use of location technology (GPS), and which further explicitly refers to “proximity” in the context of physical presence. Yen Decl. ¶¶ 109, 111. *See* ’730 Patent, FIG. 9 & Table 1 (Signal Vehicle of Presence).

When the specification refers to “proximity,” it means distance. Yen Decl. ¶ 109. *See, e.g.*, ’730 Patent, 17:49-51 (When the passenger/renter is in proximity to the vehicle, the doors can be unlocked....); Table 1 (Signal Vehicle of Presence) (“When *approaching* the transit vehicle...the hand held terminal would notify the vehicle that the particular passenger was *present*....”). When the patent is referring to time, it says so. Yen Decl. ¶ 110. *See, e.g.*, ’730 Patent, 7:55 (“the expected time of arrival”); 13:10-11 (“expected times of pick-up”); 13:31 (“Display of expected times of pick-up”); 14:24-25 (“so that passengers can be notified of pick-up times”); 15:41-42 (“The system in step **512** then updates the pickup times”); 15:44 (“revised pickup times”); Table 1 (Notify Passenger, Updates) (“If this time of pick-up had an uncertainty of greater than some time limit, e.g., 60 seconds, then repeated messages, updates, would be sent concerning the chosen trip so that waiting could be minimized.”).

Of course, even if “time” were to be imported into construction of “proximity,” the patent provides that the central data system calculates arrival time. ’730 Patent, 17:8-11.

## V. CONCLUSION

For the foregoing reasons, the Court should reject Lyft’s proposed claim constructions and adopt those set forth in RideApp’s Opening Claim Construction Brief.

1 Dated: September 6, 2019  
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